The Impact of Language Requirement on Students' Performance, Retention, and Major: PHASE 1

Olga Scrivner Research Scientist, CNS   Julie Madewell Senior Lecturer, Spanish &Portuguese

Indiana University

Our Questions

1. How do language and culture studies affect students' performance? (HIP Practices)
2. How to increase students? interest to continue language studies (e.g., minoring in Spanish)?
3. How do study abroad and language learning affect students' career?

High-Impact Educational Practices

	Deep Learning	Gains: General	Gains: Personal	Gains: Practical
First-Year				
Learning Communities	+++	++	++	++
Service Learning	+++	++	+++	+++
Senior				
Study Abroad	++	+	+	++
Student–Faculty Research	+++	++	++	++
Internships	++	++	++	++
Service Learning	+++	++	+++	+++
Senior Culminating Experience	+++	++	++	++

+ p<0.001, ++ p<0.001 & Unstd B > 0.10, +++ p<0.001 & Unstd B > 0.30

Figure: Relationships between Selected High-Impact Activities, Deep Learning, and Self-Reported Gains

Our Data

1. Institutional data: Courses, Majors, Student Attributes, Retention
2. IPEDS: The Integrated Postsecondary Education Data System
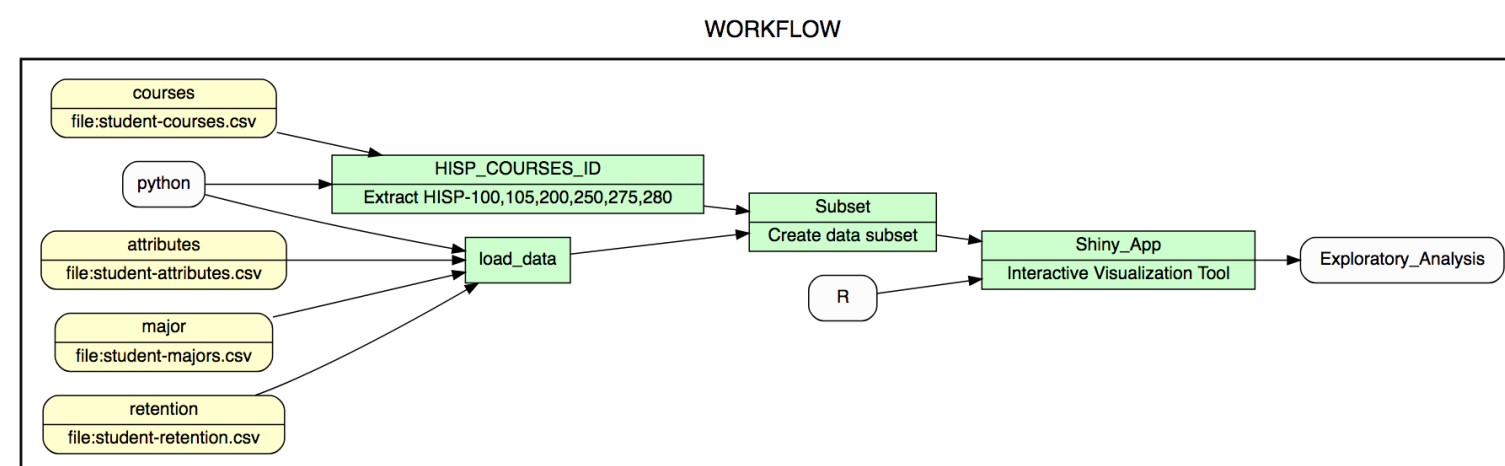3. EMSI: Labor Market Analytics

Our Workflow

WORKFLOW

Figure: Data Preprocessing and Tools for Analysis

General Overview

Region	2003 Completions	2015 Completions	% Change
● Region	351	434	23.6%
■ Nation	12,401	13,102	5.7%

Award Level
- ● Bachelor's Degree
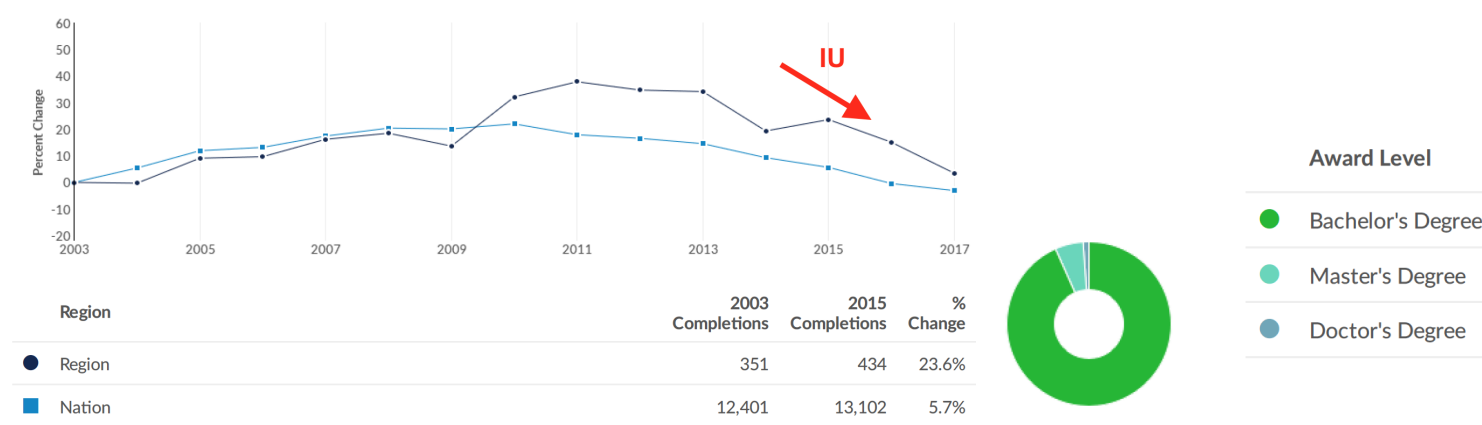- ● Master's Degree
- ● Doctor's Degree

Figure: Completions in Spanish Language and Literature: Indiana University. EMSI

Language Programs at IU

"The foreign language requirement is part of the university's commitment to make it a globally engaged institution."

> If you talk to a man in a language he understands, that goes to his head. If you talk to him in his own language, that goes to his heart.
>
> Nelson Mandela, human rights activist and former president of South Africa

70+ foreign language classes
#6 ranking college for language studies
380+ study abroad programs in over 50 counties

Job Market

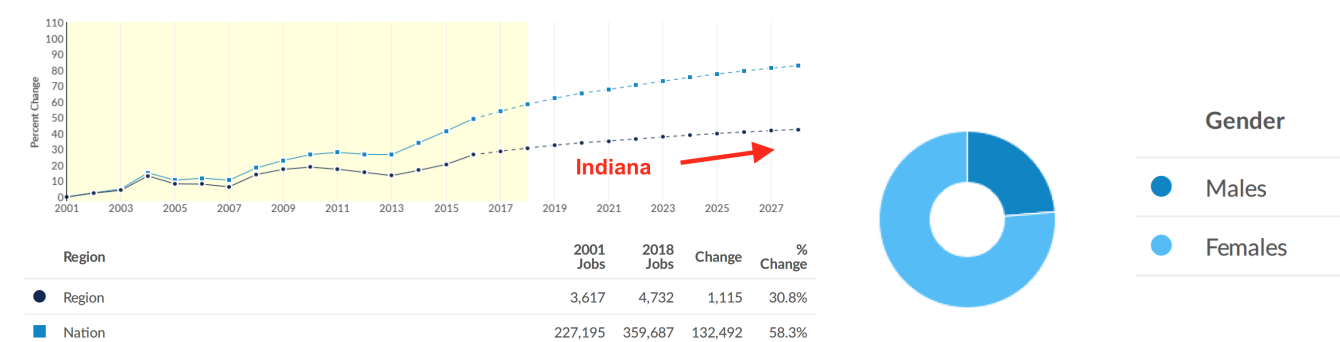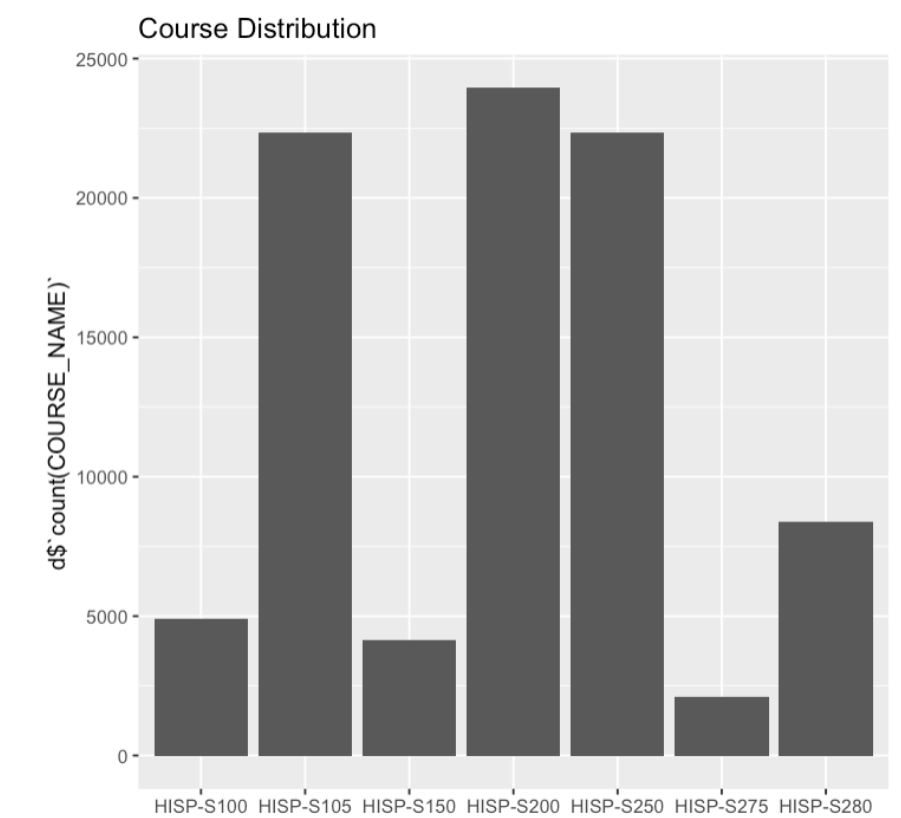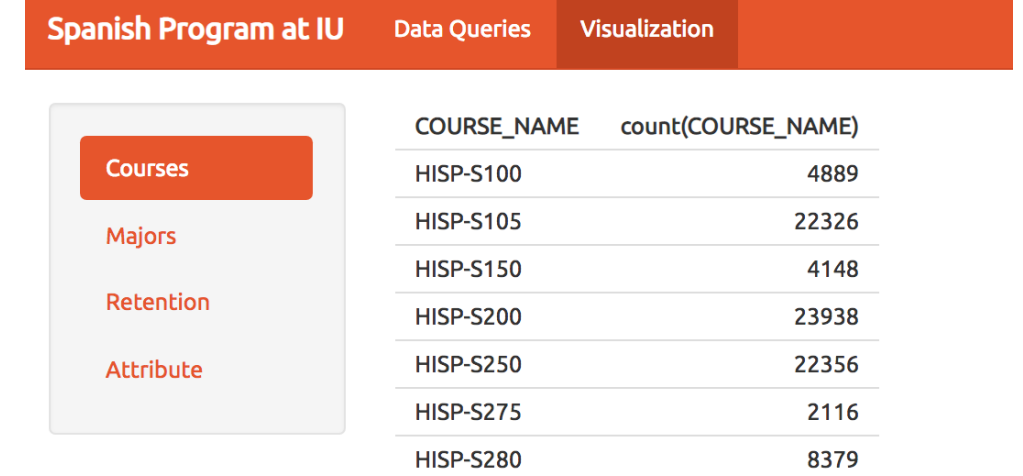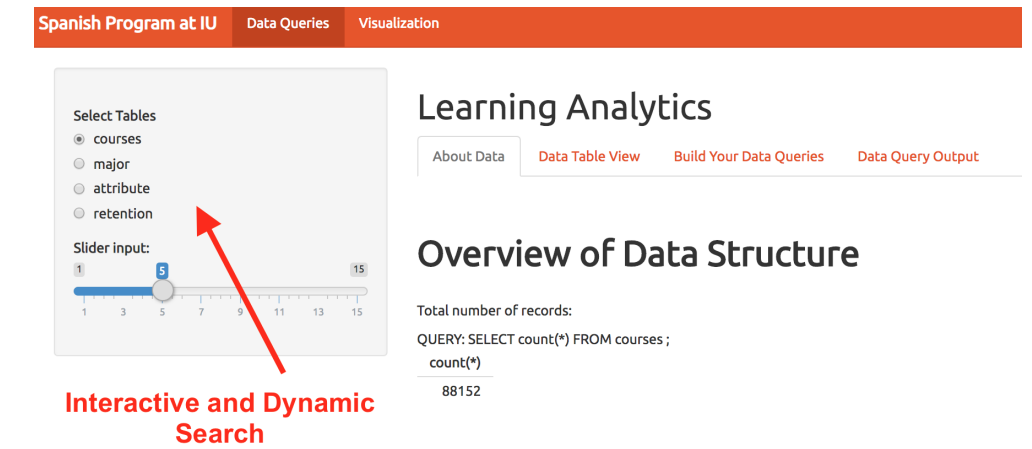| Region	2001 Jobs	2018 Jobs	Change	% Change
● Region	3,617	4,732	1,115	30.8%
■ Nation	227,195	359,687	132,492	58.3%

Gender
- ● Males
- ● Females

Figure: Target Occupations: Interpreters

Interactive Web Application

Building a prototype for Interactive Learning Analytics Data Visualization, using the Shiny web framework and R programming language.

Interactive and Dynamic Search

COURSE_NAME	count(COURSE_NAME)
HISP-S100	4889
HISP-S105	22326
HISP-S150	4148
HISP-S200	23938
HISP-S250	22356
HISP-S275	2116
HISP-S280	8379

Course Distribution

Acknowledgement